Lesson # 94

Fractions: Subtraction with Borrowing

Date

I. Subtraction of Mixed Numbers

II. Subtraction of Mixed Numbers with Borrowing

Homeschool Honor Roll
Learn ~ Persevere ~ Succeed

Pre-Algebra and Geometry I
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Fractions: Subtraction with Borrowing

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Warmup:

1. Evaluate:

$\frac{4}{5} + \frac{2}{5} =$

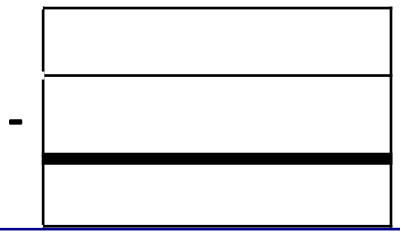
2. $\frac{7}{8} + \frac{2}{3} =$

3. $1\frac{2}{3} - \frac{3}{5} =$

4. Compare each group of fractions with <, >, and =

$\frac{1}{2}$ ❍ $\frac{2}{3}$ = $\frac{1}{3}$ ❍ $\frac{1}{4}$ $\frac{7}{8}$ ❍ $\frac{6}{7}$

5.



I. Subtraction of Mixed Numbers

1. **If necessary, change the fractions to have equal denominators**
2. **Subtract the whole number part**
3. **Subtract the fraction part**
4. **Write the answer in simplest form**

$$7\frac{3}{4} - 5\frac{2}{5} =$$

$15\frac{3}{8} - 12\frac{1}{4} =$

6. $9\frac{5}{6} - 4\frac{3}{8} =$

II. Subtraction of Mixed Numbers with Borrowing

1. If necessary, change the fractions to have equal denominators
2. Determine if the fractions can be subtracted.
   If the numerator of the subtrahend is larger than the numerator of the minuend, then borrow from the whole number part.
3. Subtract the whole number part
4. Subtract the fraction part
5. Write the answer in simplest form

$$7\frac{2}{5} - 5\frac{3}{4}$$

$$7\frac{8}{20} - 5\frac{15}{20}$$

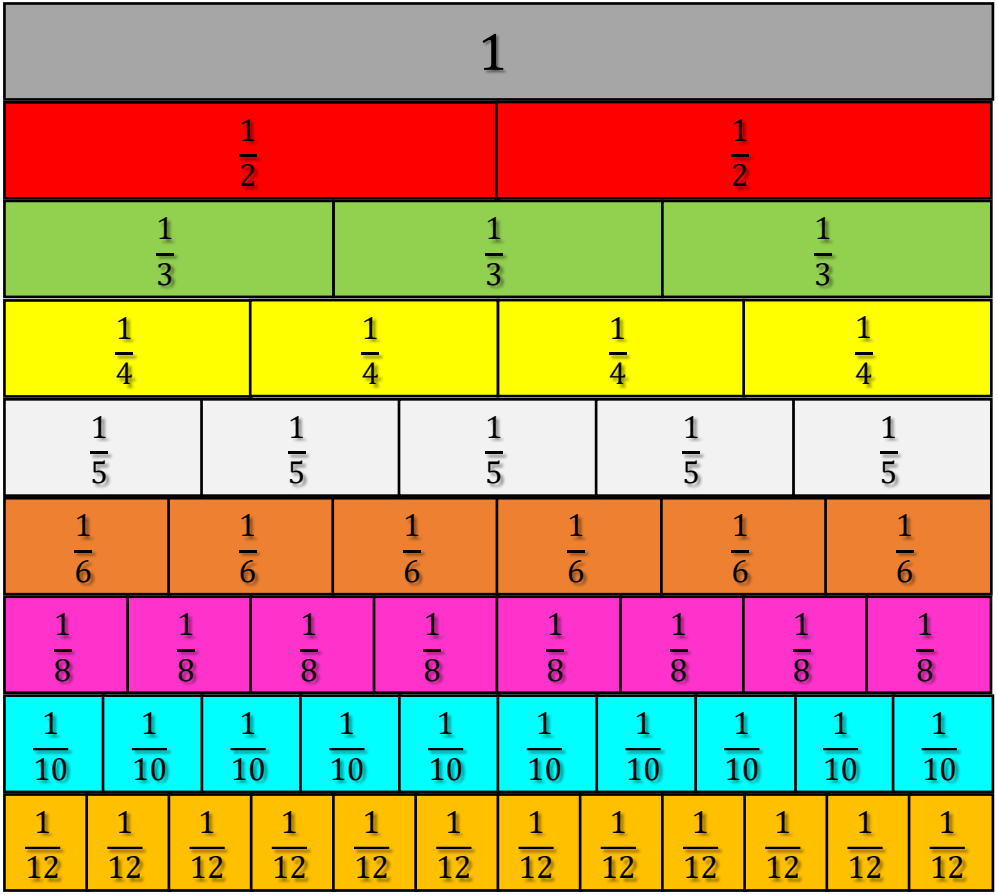
$$6\frac{28}{20} - 5\frac{15}{20}$$

$$6 - 5\frac{28-15}{20}$$

$$1\frac{13}{20}$$

$5\frac{1}{6} - 1\frac{1}{3} =$

7. $8\frac{4}{7} - 3\frac{7}{8} =$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1/6 1/6 1/6 1/6 1/6 1/6
1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8
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